



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
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Lexington, MA 02421-3185

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Laboratory Results

December 02, 2013

Mia Pasquerella - Mail Code OSRR02-2
US EPA New England R1

Project Number: 13110054
Project: Turkey Brook - Litchfield, CT
Analysis: Oil Identification
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, MISOILID3.SOP.

Soil and product samples were extracted using cyclohexane as a solvent. In most cases Pressurized Fluid Extraction is used on soil samples, however if raw product is visible both soil and product samples are extracted using a waste dilution extraction. Aqueous samples are extracted using a separatory funnel technique with dichloromethane. The dichloromethane extract is concentrated and exchanged to cyclohexane. The extracts were analyzed using an Hewlett Packard 5890 gas chromatograph equipped with a J&W DB-1HT 30 meter 0.32mm ID capillary column. Detection was by Flame Ionization Detector.

Date Samples Received by the Laboratory: 11/25/2013

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617.918.8340

Sincerely,

13110054OILID

Turkey Brook - Litchfield, CT

Oil Identification

Matrix: PRODUCT

Field ID	Lab ID	Collected	Extracted	Analysis	Product	Hydrocarbon Range	Qualifier
13090009-0001	AB45642	11/22/2013	11/26/2013	11/26/2013	Motor Oil	GRO	MATCH

Comments: The sample chromatogram contained two characteristic 'humps'. One appeared to be a lubricating oil (i.e. motor oil, cutting oil) in the C18 to C38 hydrocarbon range. The other appeared to be a lighter compound (i.e. petroleum distillate) in the C10 to C13 hydrocarbon range (Gasoline Range Organics).

13110054

Turkey Brook

Contact Name: Mia Pasquerella
Contact Phone: 6179181120

No: 11/22/13-0001

Cooler #:

Lab: US EPA NEERL

Lab Phone:

[illegible]

Special Instructions: Please forward results to OSC Pasquerella and OSC Bazenas

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

[illegible]